		Exploring Aeron	autics
		2008 Mathema	
		Content Stand	ards
Wyoming Mathematic	S		
Grade 5			
Activity/Lesson	State	Standards	
			Students systematically collect, organize, and
Fundamentals of			describe/represent categorical data using bar
Aeronautics (145-176)	WY	MA.5.MA5.5.1	graphs.
Fundamentals of Aeronautics (145-176)	WY	MA.5.MA5.5.2	Students find and interpret mode for data sets in a problem-solving setting appropriate to grade level. Students communicate their findings. Students determine area and perimeter of
Wings(177-208)	WY	MA.5.MA5.3.5	triangles, rectangles, and squares using models in problem-solving situations using appropriate units.
Tools of	V V I	WA.3.WA3.3.3	Students predict and record outcomes of
Aeronautics(257-326)	WY	MA.5.MA5.5.3	probability experiments or simulations.
The Tools of	**1	1417 (1417-(0	Students predict and record outcomes of
Aeronautics	WY	MA.5.MA5.5.3	probability experiments or simulations.
Integrating with Aeronautics	WY	MA.5.MA5.3.1	Students apply estimation and measurement of length to content problems using actual measuring devices and express the results in U.S. customary units (parts of inchhalves/fourths, eights inches, feet, yards, and miles). Students recognize, describe, extend, create,
Integrating with Aeronautics	WY	MA.5.MA5.4.1	and generalize patterns by using manipulatives, numbers, and graphic representations, including charts and graphs.
Integrating with Aeronautics	WY	MA.5.MA5.5.2	Students find and interpret mode for data sets in a problem-solving setting appropriate to grade level. Students communicate their findings.
Intro to Aeronautics (109-123)	WY	MA.5.MA5.5.1	Students systematically collect, organize, and describe/represent categorical data using bar graphs.
Scientific Method(124-144)	WY	MA.5.MA5.5.1	Students systematically collect, organize, and describe/represent categorical data using bar graphs.
Scientific Method(124- 144)	WY	MA.5.MA5.5.3	Students predict and record outcomes of probability experiments or simulations.
		Exploring Aeron	autics
		2008 Mathema	
		Content Stand	
Wyoming Mathematic	:s		
Grade 6			
Activity/Lesson	State	Standards	
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Fundamentals of			Students apply estimation and measurement of length to content problems and express the
Aeronautics (145-176)	MY	MA.6.MA6.3.1	results in metric units (centimeters and meters).
Acionaulics (145-170)	VVI	IVIA.U.IVIAU.S. I	Students recognize, describe, extend, create,
			and generalize patterns, such as numeric
			sequences, by using manipulatives, numbers,
Fundamentals of			graphic representations, including charts and
Aeronautics (145-176)	WY	MA.6.MA6.4.1	graphs.
7101011001100 (110 110)		100 00000000000000000000000000000000000	Students systematically collect, organize, and
Fundamentals of			describe/represent numeric data using line
Aeronautics (145-176)	WY	MA.6.MA6.5.1	graphs.
			Students apply estimation and measurement of
			weight to content problems and express the
			results in U.S. customary units (ounces, pounds,
Science of Flight	WY	MA.6.MA6.3.2	and tons).
			Students systematically collect, organize, and
			describe/represent numeric data using line
Science of Flight	WY	MA.6.MA6.5.1	graphs.
Integrating with			Students represent the number line using
Aeronautics	WY	MA.6.MA6.1.3	integers.
			Students represent the idea of a variable as an
Integrating with			unknown quantity, a letter, or a symbol within
Aeronautics	WY	MA.6.MA6.4.3	any whole number operation.
			Students systematically collect, organize, and
Intro to Aeronautics			describe/represent numeric data using line
(109-123)	WY	MA.6.MA6.5.1	graphs.
			Students systematically collect, organize, and
Scientific Method(124-			describe/represent numeric data using line
144)	WY	MA.6.MA6.5.1	graphs.
		Exploring Aeron	acutics.
		2008 Mathema	
		Content Stand	
Wyoming Mathematic	s		
Grade 7			
Activity/Lesson	State	Standards	
			Children annly actimation and magazinement of
			Students apply estimation and measurement of length to content problems and convert within
Fundamentals of			
	W	MA.7.MA7.3.1	the U.S. customary (in, ft, yd, mi) and within the metric system (mm, cm, m, km).
Aeronautics (145-176)	VVI	IVIA. / .IVIA / .3. I	Students apply estimation and measurement of
Fundamentals of			weight to content problems expressing the
Aeronautics (145-176)	WY	MA.7.MA7.3.2	results in metric units (g, kg).
ACIONAUNOS (140-170)	V V I	IVIA.1.IVIA1.3.2	Students predict, compare, and report as ratios
			probable outcomes of experiments or
Tools of			simulations (i.e., impossible, equally likely,
Aeronautics(257-326)	WY	MA.7.MA7.5.3	certain).
		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Students predict, compare, and report as ratios
			probable outcomes of experiments or
The Tools of			simulations (i.e., impossible, equally likely,
Aeronautics	WY	MA.7.MA7.5.3	certain).
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			Students explain their choice of estimation and
			problem- solving strategies and justify results
			when performing number operations with
			fractions and decimals in problem-solving
Integrating with			situations appropriate to grade level. Students
Aeronautics	WY	MA.7.MA7.1.4	add and subtract fractions and mixed numbers.
Acionadics	VVI	IVIA.1.IVIA1.1.4	Students apply estimation and measurement of
Intograting with			
Integrating with	1407	BAA 7 BAA 7 0 0	weight to content problems expressing the
Aeronautics	WY	MA.7.MA7.3.2	results in metric units (g, kg).
			Students apply estimation and measurement of
Integrating with			capacity to content problems expressing the
Aeronautics	WY	MA.7.MA7.3.3	results in metric units (liters).
Intro to Aeronautics			Students systematically collect, organize,
(109-123)	WY	MA.7.MA7.5.1	describe, and analyze data using histograms.
Scientific Method(124-	-		Students systematically collect, organize,
144)	WY	MA.7.MA7.5.1	describe, and analyze data using histograms.
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		Exploring Aeron	nautics
		2008 Mathema	
		Content Stand	
Wyoming Mathematic	cs		
Grade 8			
Activity/Lesson	State	Standards	
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			Students select and use the appropriate
			methods, tools, and units to solve problems
			involving angle measure, perimeter,
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1407	BAA O BAA O O O	circumference, area (including circles), and
Wings(177-208)	WY	MA.8.MA8.3.3	volume of rectangular solids.
			Students select and use the appropriate
			methods, tools, and units to solve problems
			involving angle measure, perimeter,
Airplane Control(209-			circumference, area (including circles), and
256)	WY	MA.8.MA8.3.3	volume of rectangular solids.
			Students apply estimation and measurement of
			weight/mass to content problems and convert
			within U.S. customary and within metric units
Science of Flight	WY	MA.8.MA8.3.1	(mg, g, kg).
CO.OTIOC OF FINGING			Students systematically collect, organize,
			describe, analyze, and represent data using
Science of Flight	WY	MA.8.MA8.5.1	tables, charts, diagrams, and graphs.
Science of Flight	VVI	IVIA.O.IVIAO.3. I	
			Students predict, compare, and calculate
0	1407		probable outcomes of experiments or
Science of Flight	WY	MA.8.MA8.5.3	simulations.
			Students systematically collect, organize,
Intro to Aeronautics			describe, analyze, and represent data using
(109-123)	WY	MA.8.MA8.5.1	tables, charts, diagrams, and graphs.
			Students systematically collect, organize,
Scientific Method(124-			describe, analyze, and represent data using
144)	WY	MA.8.MA8.5.1	tables, charts, diagrams, and graphs.
144)	VV Y	∣MA.8.MA8.5.1	tables, charts, diagrams, and graphs.